

**REMARKS**

Claims 1-44 are cancelled. Claims 45-46 and 54 are rejoined. Claims 47-51 remain withdrawn from consideration by the Examiner. Claims 48-46, and 52-54 are currently pending. No new matter has been entered.

Applicant wishes to thank the Examiner for the Examiner Interview on May 2, 2005. During the interview, rejoinder of claims 46 and 54 were discussed. Rejoinder of claim 45 as amended is also requested. Amendments to place claims 46 and 52-54 in condition for allowance were also discussed.

The Examiner's suggested modifications to the claims are herein adopted. Current amendments to the claims represent suggestions made by the Examiner which place the Application in condition for allowance.

As requested by the Examiner, claim 53 is amended to clarify SEQ ID Nos derived from full length gene sequences from those which are not. Table 2 and 6 represent sequences identified from known genes. Table 7 and Table 8 contain sequences derived from genes which are not known to the public.

**II. CLOSING**

In view of the above, Applicant respectfully submits that independent claim 52 is patentable over the prior art. Claims 45-46 and 53-54 are patentable at least as being dependent from patentable independent claim 52 and are further patentable due to the additional elements recited therein.

The Director of the Patent and Trademark Office is authorized to charge any necessary fees, and conversely, deposit any credit balance, to Deposit Account No. 13-4213.

Respectfully submitted,



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